STPI

Legend:
Green – Off-System
Purple – On-System

Division of Transportation Planning

Photo: Visityolo.com

Example projects only; modified for Presentation Purposes

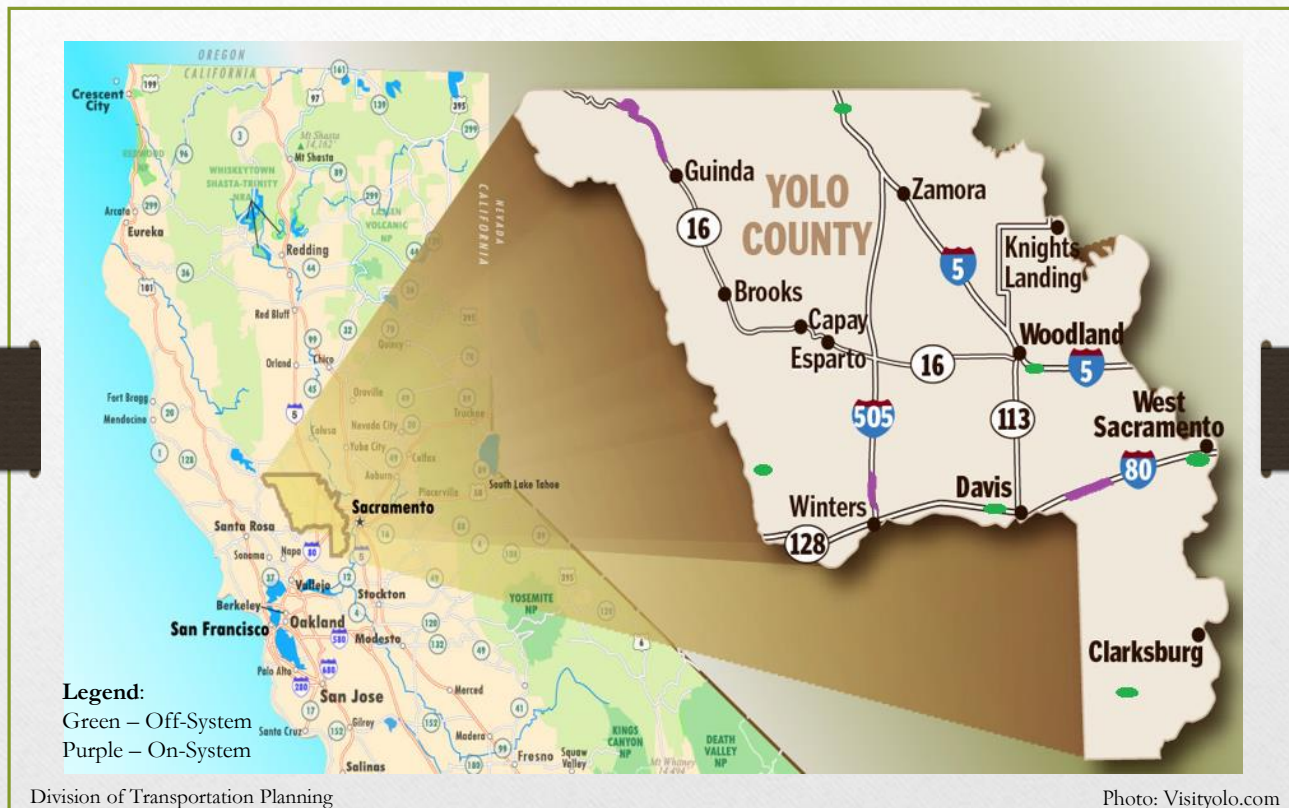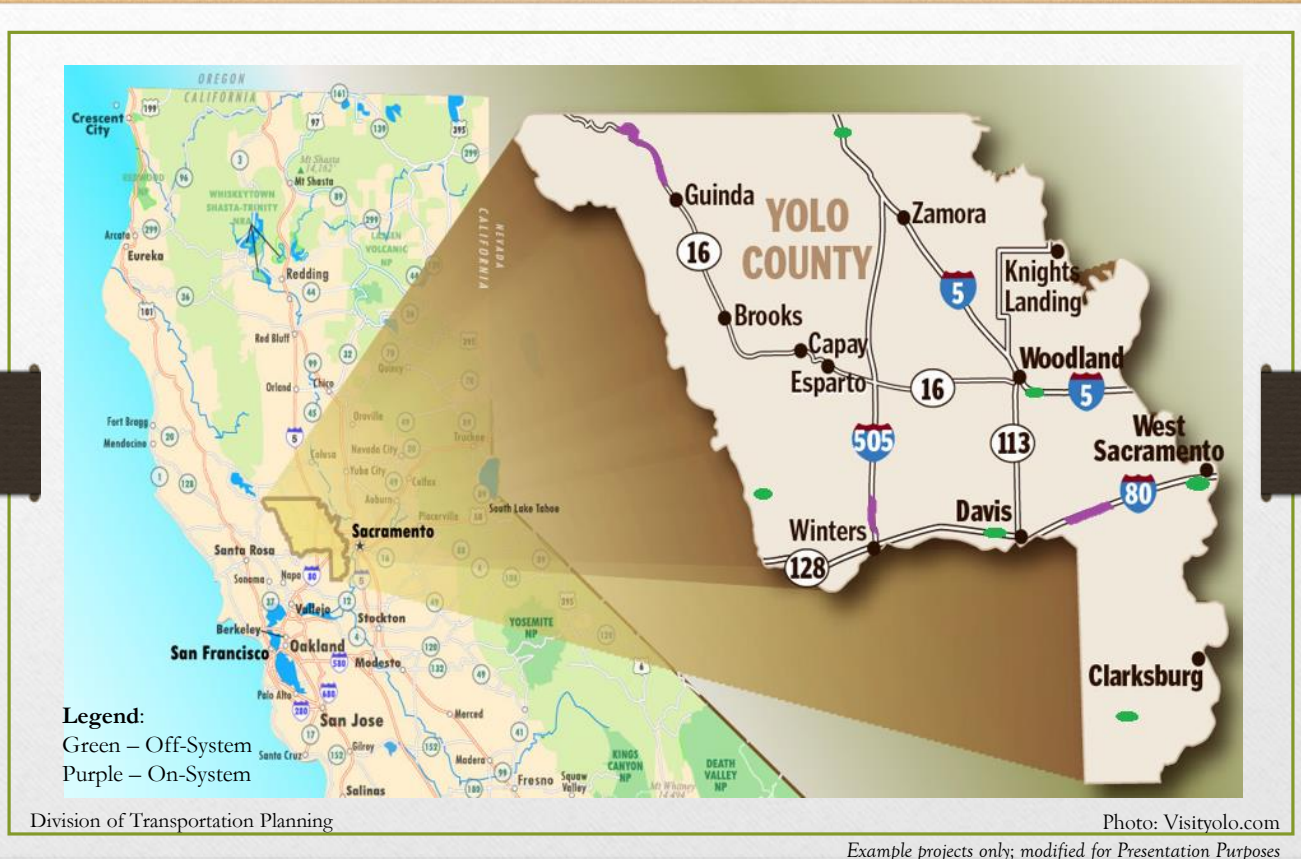# STATEWIDE TRANSPORTATION PROJECTS INVENTORY

Christian Bushong
Office of State Planning
Division of Transportation Planning

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STATEWIDE TRANSPORTATION PROJECTS INVENTORY

STPI Geodatabase

- **Statewide GIS** Data **Repository**

- Financially Constrained Transportation **Planned Projects from 44 RTPs**

- **20-25 Year** Long-Range Plan

- Transportation & Land Use Funding **Opportunities**

- **Accessible Online;** Winter2016
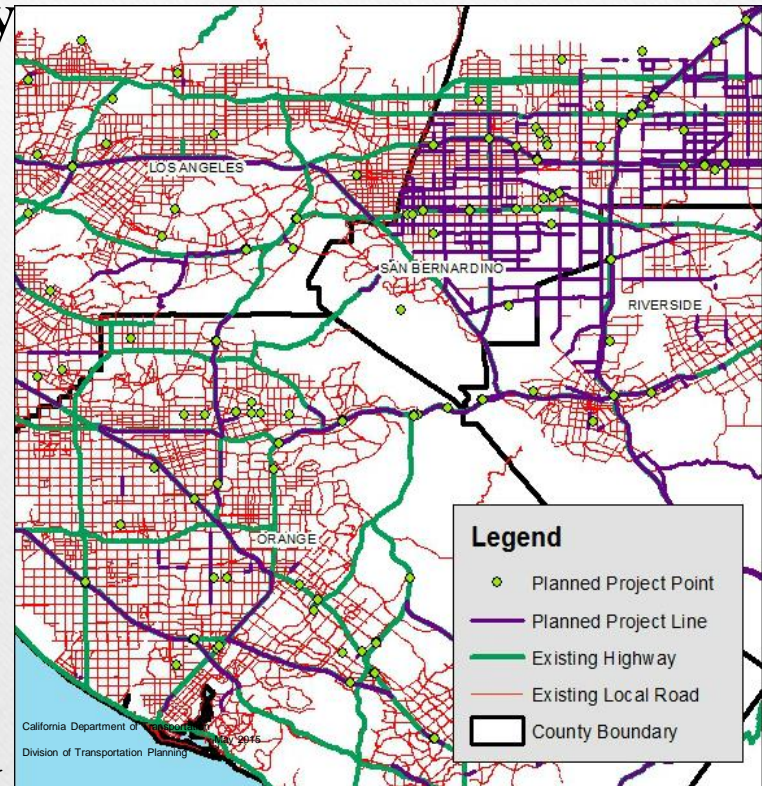
STPI Importance

- Displays Geospatial Relationships for Corridor and Project Initiation Planning

- Elevates the Need for Improved Project Selection and Funding

- Improves Intragency and Interagencies Project Collaboration & Coordination

- Offers an Effective & Advantageous way to identify Transportation System & Land Use Gaps/Deficiencies

STPI Key Stakeholders

- Caltrans Planners, Engineers, Research Analysts & Management

- CalSTA

- CTC & Staff

- California Legislature

- MPOs & RTPAs

- Tribal Governments

- Local Governments

- And many other agencies, non-profits & the public
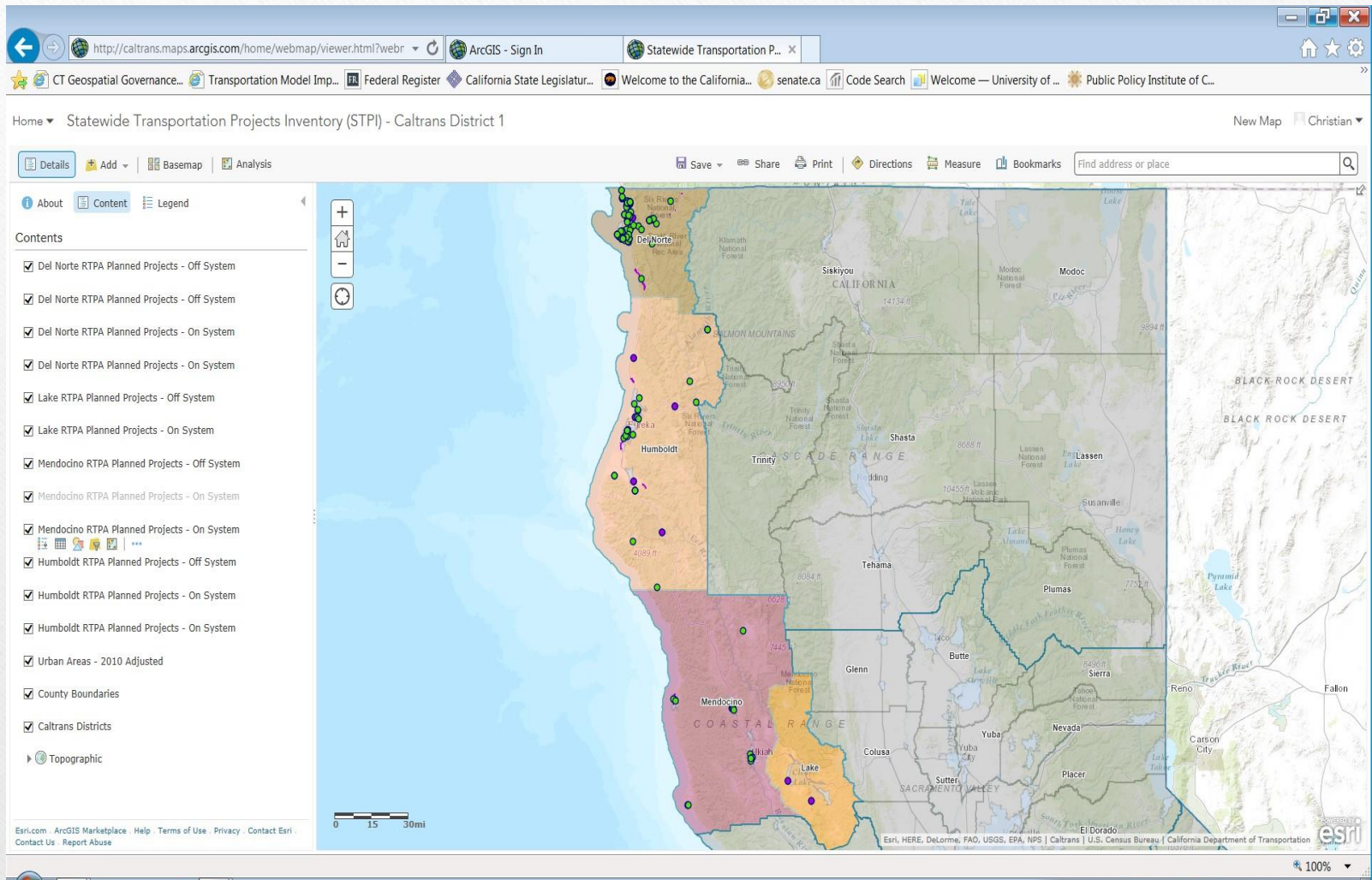
The **Challenge** for STPI

- An on-going effort to **maintain** and keep the repository **current**

- Administer **methodology** for RTPs planned projects **updates**

- **ArcGIS Online** (AGO) & **Portal for ArcGIS** allows multiple users to **map, edit, maintain, and share** project maps, apps, and data

- **Programmed** transportation and **Modal** project data are combined with the **repository** for the **future multiple GIS layer** file that will be available online

STPI Demonstration

District 1

– **4** Counties, **238** total planned projects, **$400 million**

- **RTPs** Fiscally Constrained **Planned** Projects

  - **On-system** – **points** and **lines** layers

  - **Off-system** – **points**

    - Experiment (labor intensive): Del Norte off-system lines

  - **Charted projects** – unmappable projects represented as **points** at the **city, county, agency, tribal seat**

District 1 View

Del Norte County View

Crescent City View

Off- System Project View

On-System Project View

Training & Support

- In-person presentation & training for all 12 District planning &GIS staff

- Provide GIS & MPO/RTPA RTP transportation project data assistance and solutions

- CTIPs automated transportation project updates in near real-time* & Approved modal program data

(*Pending CTC votes & project managers updates)

Roles & Responsibilities

HQ:

- Provide infrastructure & means to support data
- Training & support to Districts & HQ Divisions
- Quality assurance & control
- Generate reports, maps, & apps for Division & Agencies

Districts:

- Update and maintain project data from MPOs & RTPAs
- Use data to provide transparent and accountable project info to public and partnering agencies
- Generate editable reports, maps, & apps as well as supports District offices requests

Workflow Roles

- District agreements, workloads, tasks, and deliverables

- The Districts will update and maintain their respective MPO/RTPA RTP project data in STPI central geodatabase

- Allows information to flow to &from Districts and HQ central repository

Goal: To be Authoritative GDB

STPI Repository

Current Dataset

New addition

Bob

Anne

QA/QC

+

Requests

Photo from ESRI; edited for presentation purposes
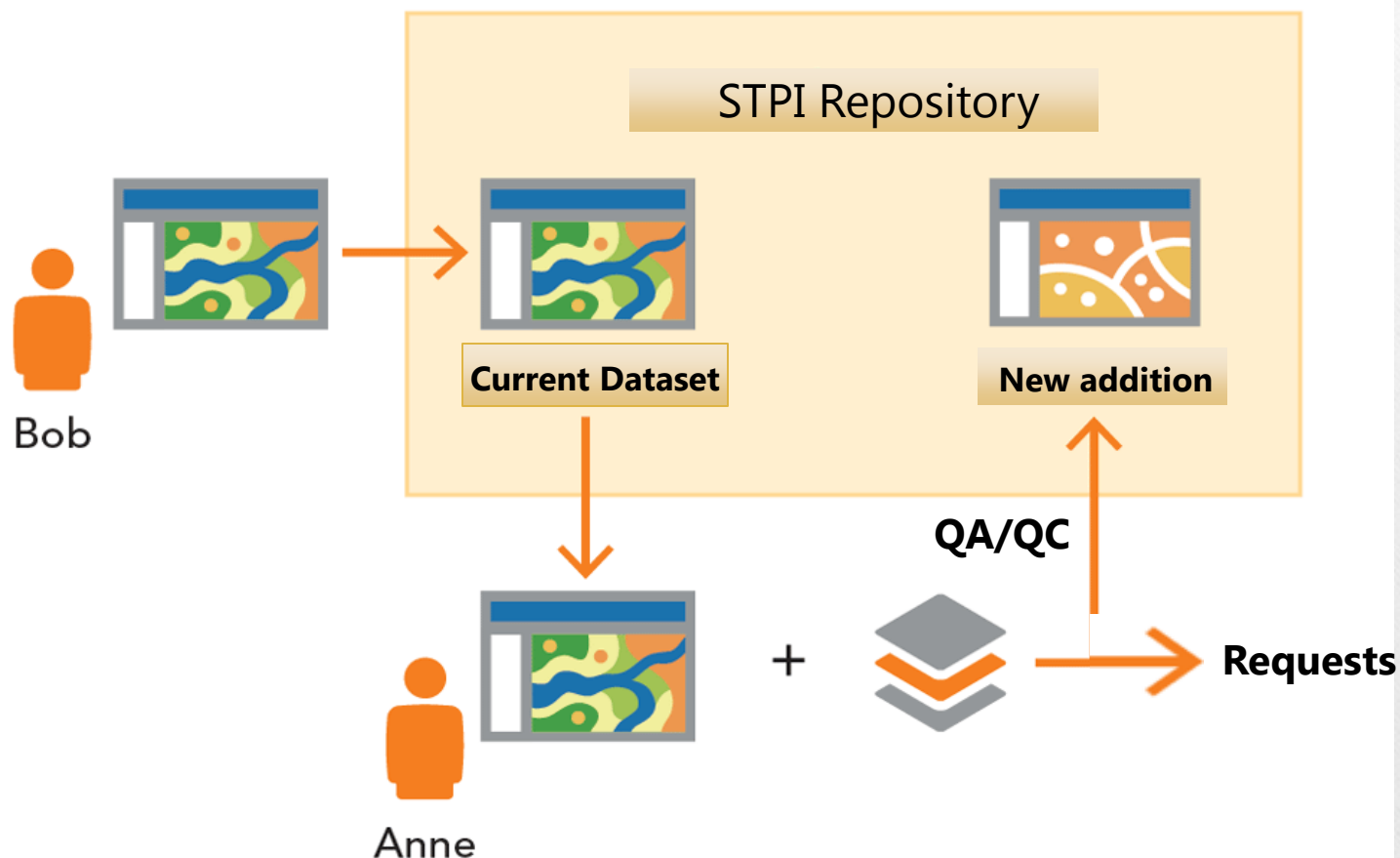
Roundabout Example

- A current request for STPI is to locate all financially constrained planned roundabouts for the next *Roundabout Inventory Report*

- We found 56 projects

- Improved efficiency vs. the "Old" method of contacting 12 Districts, searching 44 RTPs, and other labor and time intensive processes

Roundabouts
The California State Highway System Roundabouts Inventory

July 2014

California Department of Transportation
Division of Transportation Planning
Office of System & Freight Planning

Map of Statewide Roundabouts

FINANCIALLY CONSTRAINED PLANNED ROUNDABOUTS

1:5,212,009

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Truckee Area Roundabouts
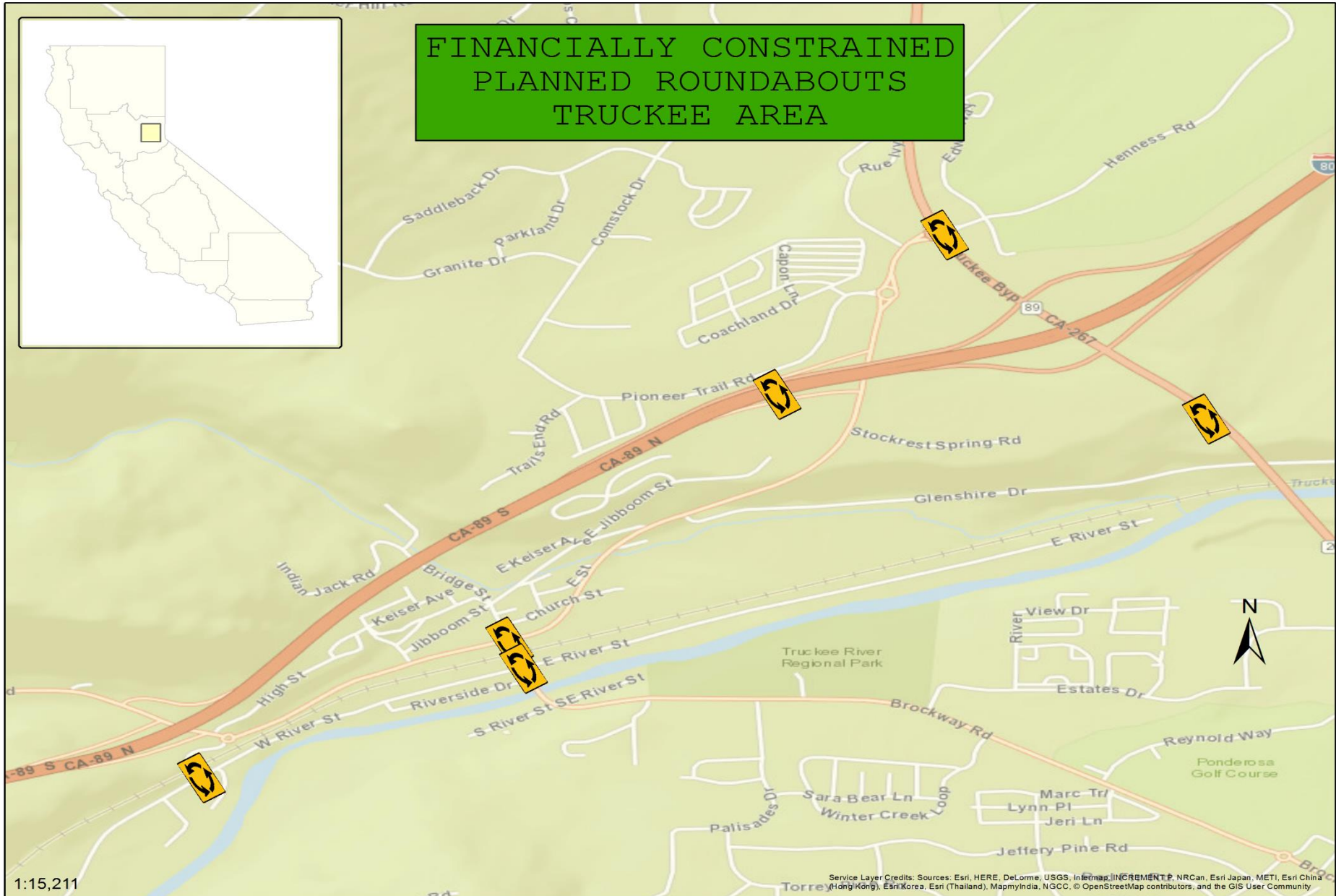
Paso Robles Area Roundabouts

FINANCIALLY CONSTRAINED
PLANNED ROUNDABOUTS
PASO ROBLES, SAN LUIS OBISPO COUNTY

1:66,677

STPI Recap

❑ What STPI is

❑ The Value and Benefits of STPI

❑ The Key Stakeholders

❑ The Challenge is maintaining project data

❑ Education, Training, and Support

❑ Roles, Responsibilities, & Workflows for DOTP

❑ The multi-user Enterprise GDB houses all 12 Districts STPI database domains.

❑ NEXT STEPS

Statewide Transportation Projects Inventory

Thank You!

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Photo: Visityolo.com

Geo-Collaboration and the Statewide Transportation Projects Inventory